






LIBER Symposium 2023 (11-12 May)






Hilton Hotel Helsinki Kalastajatorppa

Kalastajatorpantie 1, 00330 Helsinki



Day 1: Thursday 11.5.2023

| 8:15 | | Registration & Breakfast (45 min) | |
|--|--|-----------------------------------|---|
| Time | Speaker | Institute | Title of presentation |
| 9:00 | Markus Linder | LIBER director | Welcome opening |
| <i>Session 1. Chair: Mauri Kostainen</i> | | | |
| 9:15 | Thomas Speck  | Freiburg University | Motile plant organs: Inspiration for "intelligent" materials systems in soft machines and soft robots |
| 10:15 | Friedrich Simmel  | Technical University of Munich | Nanomachines and Brownian motors made from DNA |
| 11:15 | | Short break (15 min) | |
| <i>Session 2. Chair: Robin Ras</i> | | | |
| 11:30 | Marc Baldus  | Utrecht University | The conformational landscape of Biomaterials as seen by in-situ NMR |
| 12:30 | | Lunch & poster (90 min) | |
| <i>Session 3. Chair: Arri Priimägi</i> | | | |
| 14:00 | Nathalie Katsonis  | University of Groningen | Life-like motion driven by artificial molecular machines |
| 15:00 | Alberto Moscatelli  | Nature Nanotechnology | An Insider's view of Nature journals |
| 16:00 | | Poster session & Coffee | |
| 19:00 | | Symposium Buffet dinner | |

Day 2: Friday 12.5.2023

| 8:30 | | Coffee and breakfast (45 min) | |
|--|--|---|--|
| Time | Speaker | Institute | Title of presentation |
| <i>Session 1. Chair: Maria Sammalkorpi</i> | | | |
| 9:15 | Corey O'Hern  | Yale University | Active, deformable particles as models of cancer invasion |
| 10:15 | Serim Ilday  | Ruhr University Bochum | A conceptual mapping of the uncharted far-from-equilibrium territories |
| 11:15 | | Short break (15 min) | |
| <i>Session 2. Chair: Jaakko Timonen</i> | | | |
| 11:30 | Chao Zhong  | Shenzhen Institute of Synthetic Biology | Engineered Living Materials (ELMs) Programmed by Life |
| 12:30 | | Lunch & posters (90 min) | |
| <i>Session 3. Chair: Olli Ikkala</i> | | | |
| 14:00 | Wilson Poon  | University of Edinburgh | Active self disassembly: towards a biophysics of death |
| 15:00 | Ofer Feinerman  | Weizmann Institute of Science | Collective problem solving by ants |
| 16:00 | | Closing remarks & coffee | |

Group Leaders in LIBER Centre of Excellence

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|--|---|--|---|
|  Prof. Markus Linder Biomolecular Materials  |  Prof. Mauri Kostiaainen Biohybrid Materials  |  Dr. Maria Sammalkorpi Soft Materials Modelling  |  Prof. Merja Penttilä Industrial Biotechnology  |
|  Prof. Jaakko Timonen Active Matter  |  Prof. Robin Ras Soft Matter and Wetting  |  Prof. Olli Ikkala Molecular Materials  |  Prof. Arri Priimägi Smart Photonic Materials  |